Great Probability Challenge Mission 2 Lesson Plan

Lesson Topic:

Introduction to statistics and probability. Use the KWL chart to assess students' prior knowledge of statistics and probability. Introduce basic probability terminology.

Preparation:

- Make one copy per students of the KWL chart

Learning Objectives:

Students will:

- make predictions about the results of the experiment
- perform a hands-on probability experiment (coin toss)
- record their findings
- create visual representations of their findings

Lesson Activities:

1.   **KWL Chart**

Briefly introduce the concepts of statistics and probability and use the KWL chart to assess students' prior knowledge.

2.   **Review proper blogging etiquette with your students.**

Use the blogging guidelines that are part of the Great Probability Challenge as a reference for a class discussion.

- **Use your safe screen name**
- **Never post personal information** including your last name, contact information, home address, phone numbers, school's name, e-mail address, last names of friends or relatives, instant messaging names, age, or birth date.
- **Never post provocative pictures** of yourself or anyone else, and be sure any images you provide do not reveal any of the previously mentioned information. Always remember to look at the background of a picture too.
- **Assume what you publish on the Internet is permanent.** Anyone on the Internet can easily print out a blog or save it to a computer.
- **Do not badmouth others or use inappropriate language.**
- All posts are **monitored** and posts that do not follow the rules will be blocked.
- Please use this website for scholarly purposes only.
- Do not display any information that could be considered offensive, illegal or unlawful such as references to violence, drugs or alcohol.
- Respect copyright law. Only upload content that you created or are authorized to use. This includes media of all forms text, video, music, animations, images and podcasts.

- Include proper citations for all content that you did not personally create.
- Use proper Netiquette

All content is monitored and any inappropriate content will be deleted and the contributor will be blocked.

3. **Send students on Mission 2 of the Great Probability Challenge.**

   1. **Students make predictions regarding the outcome of their coin toss experiment and record their predictions in the [Probability Blog](#).**

      Students answer the following questions.

      What do you think will happen when you toss the coin?

      How many times will it land on heads and how many tails?

   2. Students follow the directions in the screen cast [Mission 2 Step 2](#) to perform the coin toss and record their results.

   3. Students follow the directions in the screen cast [Mission 2 Step 3](#) to create a chart or graph.

   4. Students perform a second coin toss and create a second graph.
      Students follow the directions in the screen cast Mission 2 Step 4